



Southern California Water Workshop: Protecting Our Future

The Role of Water Recycling

Phil Friess
Sanitation Districts of Los Angeles County

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Benefits of Water Recycling

- Additional local supply
- Potential to expand
- Reliable
- Reduced energy consumption
- Reduced greenhouse gas production



Los Angeles County Major Wastewater Treatment Systems





Types of Reuse

- Purple Pipe

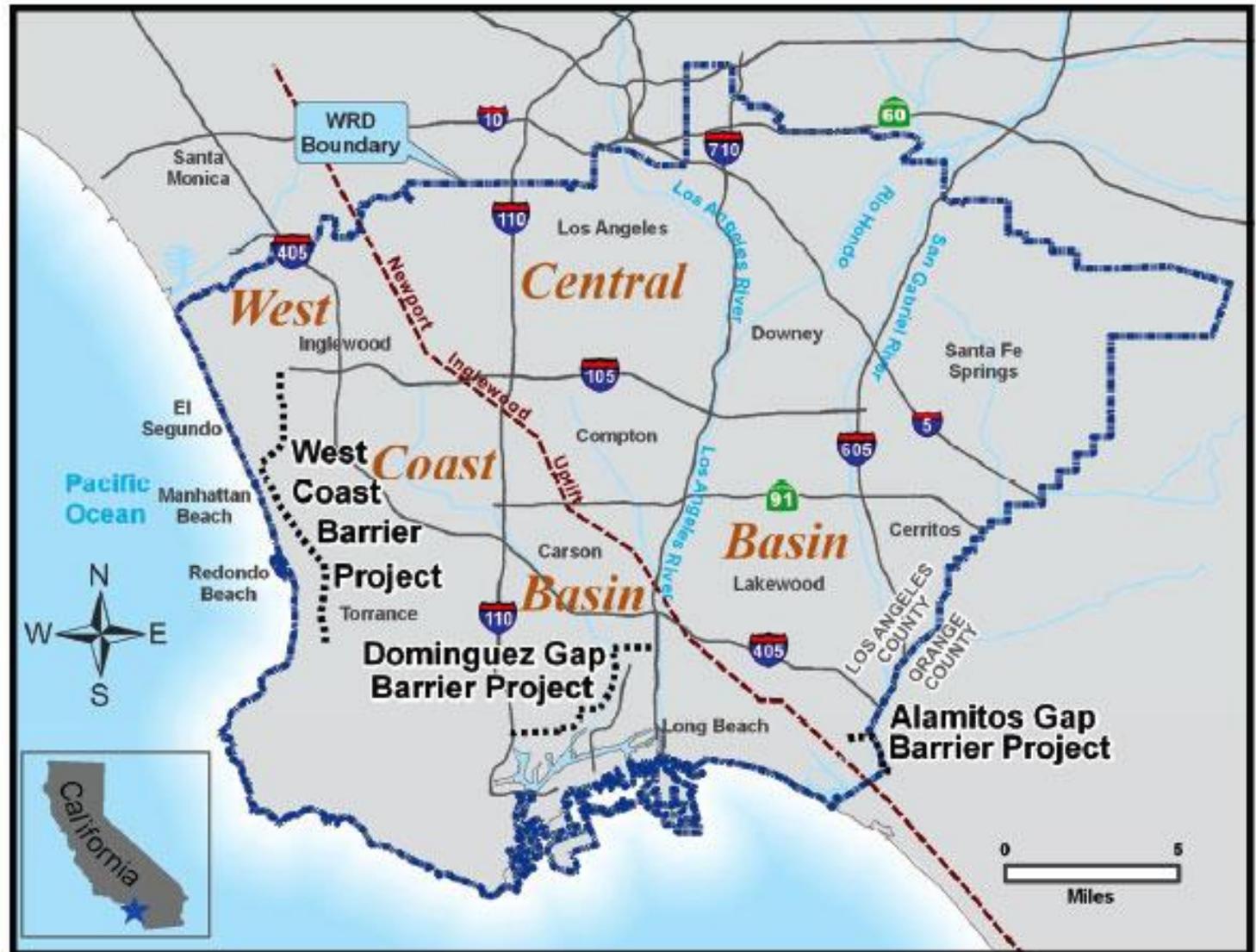


- Groundwater Recharge





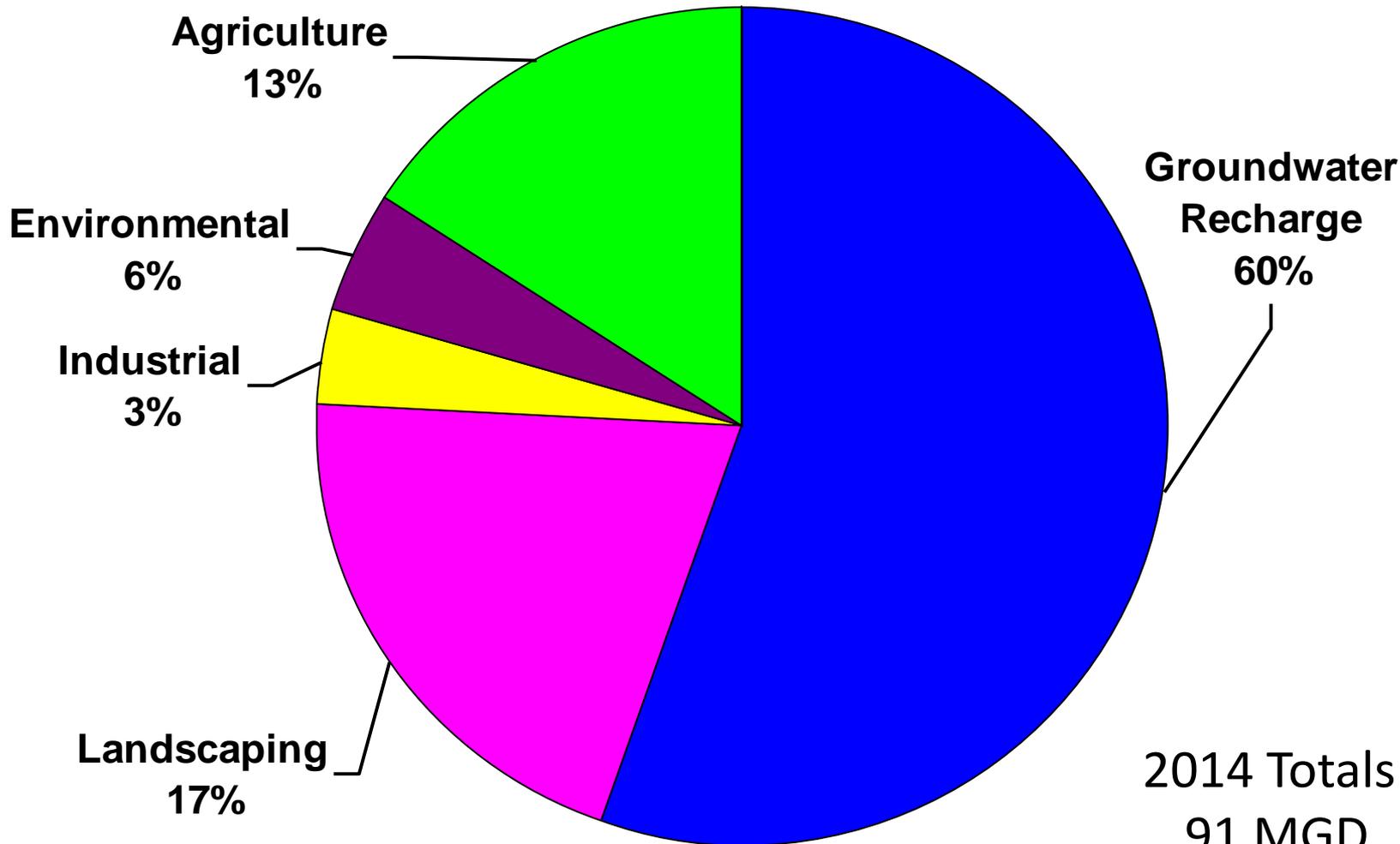
Seawater Intrusion Barriers in LA County





LACSD Recycled Water Use Distribution

2014



2014 Totals:
91 MGD
102,000 AFY



Pending Groundwater Recharge Projects

- Water Replenishment District's Groundwater Reliability Improvement Program – 10,000 AFY
- Upper San Gabriel Valley Municipal Water District's Indirect Reuse Replenishment Project – 10,000 AFY
- Metropolitan Water District of Southern California consideration of Joint Water Pollution Control Plant Project – large regional project



Potential Project at JWPCP

- Currently disposing effluent to ocean
- Ability to recycle a majority of JWPCP effluent
- Current technology makes a JWPCP project viable – MF/RO/AO
- Regional project to maximize benefits





Recycled Water: Districts' Goals

- Maximize production of recycled water from our facilities
- Coordinate closely with member cities and water agencies to implement new projects and increase reuse of recycled water resource
- Benefit the Sanitation Districts' Service Area
- Improve Southern California water supply sustainability through material increases to local water supply



Future Needs

- Real time monitoring, O&M protocols, and regulatory requirements for Direct Potable Reuse
- Certification of recycling facility operators
- New professionals in water utility industry to replace retiring Baby Boomers
- Engineer/Laboratory intern positions at LACSD
- Environmental Engineers of the Future